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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,605	<u>, , , , , , , , , , , , , , , , , , , </u>	02/05/2002	Michael J. Renn	ODC2000-1-CIPB	1467
5179	7590	12/14/2005		EXAM	INER
	CK MYER RD STREET	•	HUFFMAN, JULIAN D		
SUITE 13		., 14. ** .		ART UNIT PAPER	
ALBUQU	JERQUE, 1	NM 87102		2853	
				DATE MAILED: 12/14/2004	ς .

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/072,605	RENN, MICHAEL J.
	Office Action Summary	Examiner	Art Unit
		Julian D. Huffman	2853
 riod f	The MAILING DATE of this communication app or Reply		
A SH WHI - Extended after - If No - Fail Any	HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Does ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we ture to reply within the set or extended period for reply will, by statute to reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MOR e, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
itus			
1) 🏹	Responsive to communication(s) filed on 11 O	October 2005.	
•		s action is non-final.	
3)[Since this application is in condition for allowar	nce except for formal mat	tters, prosecution as to the merits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.l	D. 11, 453 O.G. 213.
posi	tion of Claims		
4)⊠	Claim(s) 1,2,10-13 and 20-30 is/are pending ir	n the application.	
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5)🛛	Claim(s) 11-13,20 and 27-30 is/are allowed.		
6)⊠	Claim(s) 1,10 and 26 is/are rejected.		
-	Claim(s) 2 and 21-25 is/are objected to.		
8)[]	Claim(s) are subject to restriction and/o	or election requirement.	
plica	tion Papers		
9)[]	The specification is objected to by the Examine	er.	
10)[The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to	by the Examiner.
	Applicant may not request that any objection to the	drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correct	·	
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attache	ed Office Action or form PTO-152.
ority	under 35 U.S.C. § 119		
	Acknowledgment is made of a claim for foreign)☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).
	1. Certified copies of the priority document		
	2. Certified copies of the priority document		•
	3. Copies of the certified copies of the prio		n received in this National Stage
	application from the International Bureau	u (PCT Rule 17.2(a)).	
	See the attached detailed Office action for a list		

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. _

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 10/31/05, 11/21/05.

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Disposition of Claims

Application Papers

Priority under 35 U.S.C. § 119

1) Notice of References Cited (PTO-892)

Period for Reply

Status

Attachment(s)

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DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities:

In claim 1, lines 3-4, the language "said material source means" lacks antecedent basis by way of the amendment that removes the language "means".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 10 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Brockmann et al. (U.S. 6,348,687 B1).

Brockmann et al. discloses:

With regards to claim 1, an apparatus comprising:

a material source (fig. 9, element 902) for supplying a material to be deposited (column 6, line 57);

an atomizer (element 900) for producing a plurality of discrete particles from said material source means (tube 900 flows discrete particles from the source of particles);

a carrier gas (902 holds carrier gas) for propelling said plurality of discrete particles generally toward a substrate (the carrier gas flows the particles towards the substrate, column 1, lines 38-41);

a coflowing sheath gas (element 903 holds sheath gas) which surrounds said carrier gas for controlling the direction of flight of said plurality of discrete particles (column 4, lines 61-67 and column 5, lines 16-18); and

a single orifice (907) for narrowing a particle stream comprising said coflowing sheath gas, said carrier gas, and said plurality of discrete particles sufficiently to form a deposited feature comprising a feature size of less than one millimeter on the substrate (column 2, lines 48-50).

With regards to claim 10, the coflowing sheath gas forms a boundary layer that prevents the plurality of discrete particles from depositing onto walls of an orifice nozzle (fig. 5a, the sheath gas injector 501 surrounds the carrier gas and prevents it from contacting the nozzle 300).

With regards to claim 26 a laser for processing the discrete particles (column 1, lines 62-64).

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Allowable Subject Matter

4. Claims 2 and 21-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 11-13, 20 and 27-30 are allowed.

Response to Arguments

5. Applicant's argument that Brockmann discloses plural orifices while applicant's invention uses only one orifice is noted. With regards to claim 11, this argument is persuasive due to the claim language "subsequently passing the particles through no more than one orifice".

However, with regards to claim 1, the features upon which applicant relies (i.e., only one orifice) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The language "a single orifice" does not exclude additional orifices.

Conclusion

6 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian D. Huffman whose telephone number is (571) 272-2147. The examiner can normally be reached on 10:00a.m.-6:30p.m. Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Julian D. Huffman 1 December 2005

PRIMARY EXAMINER

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